

Title (en)  
PNEUMATIC TIRE

Title (de)  
LUFTREIFEN

Title (fr)  
PNEUMATIQUE

Publication  
**EP 4159480 A4 20231227 (EN)**

Application  
**EP 21812215 A 20210108**

Priority  
• JP 2020092586 A 20200527  
• JP 2021000566 W 20210108

Abstract (en)  
[origin: EP4159480A1] A pneumatic tire according to the present disclosure includes a pair of bead cores, a carcass ply including a main body positioned between the bead cores and a turn-up portion connected to the main body and formed by turning up around each bead core from inside to outside in a tire width direction, a cover rubber covering the main body of the carcass ply and an outer side of the turn-up portion in the tire width direction and configuring a tire outer surface, and a reinforcement layer located inward from the tire outer surface of the cover rubber and covering an outer side, in the tire width direction, of at least a portion of the turn-up portion of the carcass ply. The reinforcement layer is configured by a non-woven fabric including metal fibers or a rubber sheet material having metal fibers embedded therein.

IPC 8 full level  
**B60C 9/00** (2006.01); **B60C 15/06** (2006.01)

CPC (source: EP US)  
**B60C 15/0635** (2013.01 - EP US); **B60C 2015/0678** (2013.01 - US); **B60C 2015/0692** (2013.01 - EP US)

Citation (search report)  
• [X] WO 2011142389 A1 20111117 - BRIDGESTONE CORP [JP], et al  
• [X] JP H1076818 A 19980324 - SUMITOMO RUBBER IND  
• [X] JP 2019018762 A 20190207 - BRIDGESTONE CORP  
• [X] JP 2016165923 A 20160915 - BRIDGESTONE CORP  
• [A] JP 2012245655 A 20121213 - BRIDGESTONE CORP  
• [XAI] JP 2006347394 A 20061228 - SUMITOMO RUBBER IND  
• See references of WO 2021240863A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 4159480 A1 20230405; EP 4159480 A4 20231227**; CN 115485151 A 20221216; CN 115485151 B 20240503; JP 2021187237 A 20211213; JP 7333289 B2 20230824; US 2023271460 A1 20230831; WO 2021240863 A1 20211202

DOCDB simple family (application)  
**EP 21812215 A 20210108**; CN 202180032142 A 20210108; JP 2020092586 A 20200527; JP 2021000566 W 20210108; US 202117997660 A 20210108